

Canary 'SmarTox-O'

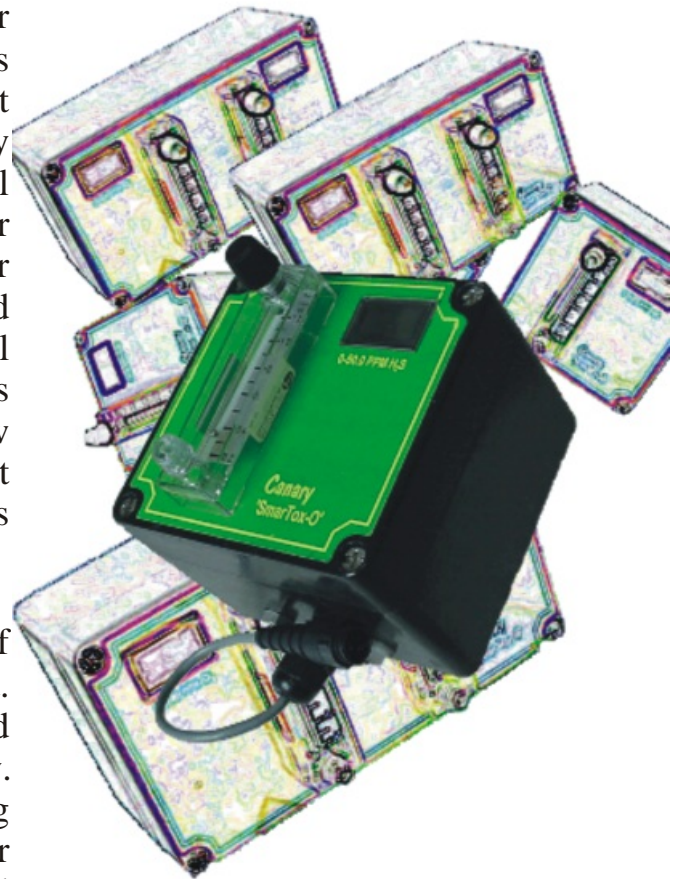


Environmental Gas Detection - Modular Design

'Wet Gas Applications'

'SmarTox-O' has been purpose built for operating in scrubbed wet gas applications where very high sensitivity and best accuracy are required from an already aggressive sampling environment. As well as specific single gas detection of either Phosphine, Hydrogen Sulphide or Ammonia both Hydrogen Sulphide and Chlorine detectors are available in our dual gas model. Each module incorporates sample gas preparation, aspiration and flow control and a linear 4-20 mA analog output signal - proportional to each gas concentration.

'SmarTox-O' is designed for ease of maintenance at the lowest possible cost. All high duty components are housed together for servicing as a single assembly. The end-user may choose either servicing on site by a Canary trained representative or simply retrofit at site using non-technical staff and a freshly calibrated spare module. Such retrofit may be effected in less than 3 minutes.



Standard Features

- Easy field replacement of DIN rail mounted sensor module.
- Variety of gas sensors & concentration ranges available.
- Single and/or dual gas modules may be networked together to a PLC.
- High accuracy sensor(s).
- Single point sampling.
- Low voltage operation from 15-30 vdc.
- Only inert materials contact sample.
- Continuous monitoring & control.
- Miniaturised high performance pump.

LOW COST - HIGH ACCURACY - NO USER SERVICEABLE PARTS

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'SmarTox-O' Monitoring System may include multiple detection modules mounted on a DIN rail instrument panel or in an IP rated stainless steel enclosure.

'SmarTox-O' Options include:

- uninterrupted power supply w/back-up battery;
- 24 vdc low voltage power to instruments;
- Local & remote displays of concentration;
- low flow warning & direction indicator;
- lightning & loop surge protection;
- current isolation if nominated;
- RS485 digital transmission;
- data-logging.



Current Applications include

Phosphine - safety & fumigation:

Ammonia - sewerage treatment de-watering:

Hydrogen Sulphide- wet wells & foul air ducts:

Hydrogen Sulphide & Chlorine - odours

Measurement Ranges

0.01 - 5.00 or 0 - 2000 ppm

0.1 - 50 or 0 - 500 ppm

0.1 - 50 or 0 - 10,000 ppm

0.01 (10ppb) - 5 ppm

'SmarTox-O' Modules are suitable for operation in 100% RH conditions where other transmitters will fail prematurely. A moisture trap may be used to eliminate condensation from the sample. The integral sample conditioning unit provides a sample to the sensor which is held at a constant temperature and relative humidity, thereby reducing zero drift and seasonal changes.

Odour compliance under clean-air legislation nowadays is a requirement that many waste water authorities must observe, requiring them to monitor sulphur emissions down to 10ppb H2S continuously for reporting purposes. The Canary 'SmarTox-O' has compared favourably to several independent wet chemistry analyses, providing accurate readings across a range of odour samples 'on-line'. For the odour market the 'SmarTox-O' Monitoring System can be supplied with either a single H2S or dual H2S & Chlorine sensors. Quick connect plugs are provided for 24 vdc power into the instrument, 4-20 mA outputs for each sensor and over temperature alarm are standard.

Fumigation for the stored grain market, the 'SmarTox-O' Monitoring System can be supplied with a single phosphine transmitter, especially developed by the Canary Company for use in its range of hand-held products. This transmitter may be moved from the top of a silo under fumigation to a bunker storage and simply connected by a sample line to a remote gas source. Even though stored grain is ideally dry, condensation may collect in gas sampling lines. The 'SmarTox - O' overcomes many difficulties found in other equipment, providing a true output signal proportional to concentration. This signal may then be transmitted remotely for tabulating the effectiveness of the fumigation.



Manufactured in Australia By:

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